

Claims

- [c1] What is claimed is:
1. A network node comprising:
 - a central processing unit (CPU) for controlling functionality of the network node;
 - a plurality of network ports for establishing contact with a network over a plurality of network lines;
 - a modem for establishing communications with a contact device over a telephone system; and
 - a memory for storing programs and data, the programs executable by the CPU, the memory comprising:
 - a network management program for analyzing network traffic on the network ports, identifying an emergency condition according to the network traffic, and generating an associated emergency condition identifier;
 - at least a contact telephone number of the contact device;
 - at least an emergency message; and
 - an emergency call-out program for utilizing the modem to dial the contact telephone number and send the emergency message to the contact device according to the emergency condition identifier.
 - [c2] 2. The network node of claim 1 further comprising:
 - an RS-232 serial port for establishing communications with a server over a serial cable, or with the modem; and
 - a switch for controlling the RS-232 port;wherein when the switch is in a first setting the RS-232 port is capable of communicating with the server over the serial cable, and when the switch is in a second position the RS-232 port is capable of communicating with the modem.
 - [c3] 3. The network node of claim 1 wherein the network node is a management switch.
 - [c4] 4. The network node of claim 1 further comprising a database, the database comprising a plurality of entries, each entry comprising:
 - a condition event that corresponds to a possible value of the emergency condition identifier; and

corresponding message data;

the emergency call-out program containing code to index into the database according to the emergency condition identifier to locate an entry and to leave a message at the contact device according to the message data in the located entry.

[c5]

5. A method for providing emergency calling functionality to a network node, the network node connected to a network and comprising a network management program for identifying an emergency condition according to traffic on the network, the method comprising:

- providing the network node with a modem to connect to a telephone system;
- providing at least a contact telephone number of a contact device on the telephone system;
- providing at least an emergency message;
- selecting a contact telephone number and an emergency message according to an emergency condition of the network as identified by the network management program; and
- causing the modem to dial the contact telephone number and send the emergency message to the contact device over the telephone system.